1. Abstract [200-300 words]
2. Report Revision History
   1. Changes in Version 2.0
3. Problem Statement
   1. Business Background
   2. Needs [why]
   3. Objectives [what]
4. Requirements
   1. Original User Requirements
      1. Glossary of Relevant Domain Terminology
      2. Functional Requirements
      3. Non-functional Requirements [Short Descriptions of Each type of Non-Functional User Requirements given in Appendix R]
         1. Product: Usability Requirements
         2. Product: Performance Requirements
         3. Product: Availability/Reliability/Security
         4. Other Constraints
   2. Refined System Requirements
      1. Functional Requirements
         1. System Functional Requirements [Short Descriptions of System Functional Requirements given in Appendix R]
         2. Data Requirements
      2. Non-functional Requirements [Short Descriptions of Each type of Non-Functional System Requirements given in Appendix R]
         1. Product: Usability Requirements
         2. Product: Performance Requirements
         3. Product: Availability/Reliability/Security
         4. Other Constraints
   3. Requirements Trace Table [Short Descriptions of the Requirements Mapping table given in Appendix R]
5. Exploratory Studies
   1. Relevant Development Frameworks [frameworks, or technology stacks, upon which your system can be built; at least one page]
   2. Relevant Solution Techniques [3rd-party open-source packages and libraries that may be used as part of the solution, and specific algorithms/techniques required by the project; at least one page]
   3. Broader Impacts[who else may benefit from the project in addition to the sponsor]
6. System Design
   1. High-level Design
   2. Low-level Design [UML Class Diagrams; ERD diagrams for DB]
   3. User Interface Design
7. System Implementation
   1. Programming Languages & Tools
   2. Coding Conventions
   3. Code Version Control
   4. Implementation Alternatives & Decision Rationale
   5. Analysis of Key Algorithms
      1. [Pick one or two algorithms implemented in your project that best represent your competence.]
      2. [Algorithms included here have to be your own design, but could be innovative integration of well-known or referenced ones]
      3. [Provide pseudo-code, followed by time- and/or space- analysis]
8. System Testing Report
   1. Unit/Integration Testing Report
   2. System Testing Report
   3. Acceptance Testing Report
9. Challenges & Open Issues
   1. Challenges Faced in Requirements Engineering
      1. [Availability of industry mentor]
      2. [Understanding the problem domain]
   2. Challenges Faced in System Development
      1. [What new techniques you need to learn]
      2. [Do you have sufficient tool support]
      3. [Any difficulties in agile practices]
   3. Open Issues & Ideas for Solutions
10. System Manuals
    1. Instructions for System Development
       1. How to set up development environment
       2. Notes on system further extension
    2. Instructions for System Deployment
       1. Platform Requirements
       2. System Installation
    3. Instructions for System End Users
11. Conclusion
    1. Achievement
    2. Lessons Learned
    3. Acknowledgment
       1. [Who financially supported your college study]
       2. [Who sponsored your capstone project]
       3. [Who helped/encouraged you to achieve college success]
12. References

* Appendix R